

U.S. Census Bureau
Meters and Test Devices - 2007
MA334T(07)
Issued July 2008

Address inquiries concerning these data to Investment Goods Industries Branch, U.S. Department of Commerce, Census Bureau, Manufacturing and Construction Division, Washington, DC 20233-6900, or call Jesse Dawson, 301-763-4746.

These data are also available online through STAT-USA by subscription. For further information, visit <http://www.stat-usa.gov/> or call 1-800-STAT-USA.

Table 1. Value of Shipments of Meters and Test Devices: 2003 to 2007
[Millions of dollars]

| Product class | Product description | 2007 | | 2006 | 2005 | 2004 | 2003 |
|---------------|--|---------|----|---------|---------|---------|---------|
| 3345141 | Integrating and totalizing meters for gas and liquids..... | 1,849.0 | | 1,584.8 | 1,449.4 | 1,427.5 | 1,329.2 |
| 3345143 | Counting devices..... | 508.8 | r/ | 533.6 | 475.6 | 506.9 | 504.8 |
| 3345151 | Integrating instruments, electrical..... | 876.3 | r/ | 872.1 | 601.6 | 502.5 | 547.7 |
| 3345154 | Test equipment for testing electrical, radio and communication circuits, and motors..... | 8,641.9 | | 9,390.7 | 9,226.5 | 9,325.7 | 9,084.5 |
| 3345155 | Instruments to measure electricity..... | 426.2 | r/ | 407.5 | 406.7 | 331.9 | 389.7 |
| 3345194 | Physical properties and kinematic testing equipment..... | 2,062.5 | | 1,906.9 | 1,801.4 | 1,732.9 | 1,581.3 |
| 3345195 | Nuclear radiation detection and monitoring instruments..... | 696.1 | | 635.2 | 601.2 | 592.4 | 534.4 |
| 3345197 | Commercial, geophysical, meteorological, and general purpose instruments | 2,274.3 | | 1,864.0 | 1,596.8 | 1,367.1 | 1,290.3 |

r/Revised by 5 percent or more from previously published data.

Table 2. Value of Shipments of Meters and Test Devices: 2007 and 2006
[Value in thousands of dollars]

| Product code | Product description | No. of cos. | | 2007 | | 2006 |
|--------------|---|-------------|----|-----------|------|-----------|
| 3345141 | Integrating and totalizing meters for gas and liquids..... | 34 | | 1,849,008 | a/ | 1,584,761 |
| 3345141108 | Gas meters, consumption registering..... | 9 | | 283,397 | r/ | 254,800 |
| 3345141116 | Liquid meters, positive displacement with registers and counters..... | 25 | | 1,119,133 | | 930,826 |
| 3345141119 | Parts, components, and accessories for gas and liquid meters, sold separately..... | 26 | | 446,478 | b/r/ | 399,135 |
| 3345143 | Counting devices, excluding motor vehicle instruments vehicle instruments..... | 41 | a/ | 508,816 | r/ | 533,601 |
| 3345143104 | Mechanical, electrical, and electronic input counting devices..... | 32 | b/ | 146,890 | r/ | 138,933 |
| 3345143108 | All other counting devices, including parts (toll meters, fare collection equipment systems, parking lot systems, taximeters, parking meters, etc. | 18 | | 361,926 | | 394,668 |
| 3345151 | Integrating instruments, electrical..... | 19 | b/ | 876,294 | r/ | 872,095 |
| 3345151104 | A.C. watt meters..... | 7 | a/ | 272,234 | | 379,353 |
| 3345151105 | Demand meters..... | 9 | a/ | 231,181 | | 210,665 |
| 3345151107 | Other electrical integrating meters..... | 8 | b/ | 235,968 | | (D) |
| 3345151109 | Parts and accessories for integrating meters..... | 10 | a/ | 136,911 | | (D) |
| 3345154 | Total test equipment for testing electrical, radio and communication circuits, and motors..... | 237 | b/ | 8,641,912 | | 9,390,706 |
| 3345154102 | Voltage, current, and resistance measuring equipment..... | 41 | b/ | 336,613 | r/ | 295,611 |
| 3345154111 | Multimeters..... | 13 | | 103,997 | | 230,795 |
| 3345154114 | Power and energy measuring equipment..... | 14 | | 80,745 | | 70,409 |
| 3345154126 | Waveform measuring and/or analyzing equipment, including oscilloscopes and spectrum analyzers..... | 27 | | 1,260,568 | r/ | 1,239,597 |
| 3345154136 | Signal generating equipment..... | 25 | a/ | 168,030 | | 229,851 |
| 3345154141 | Field strength and intensity measuring equipment..... | 14 | | 74,928 | r/ | 70,078 |
| | Impedance and standing wave ratio measuring equipment (transfer function measuring equipment): | | | | | |
| | Automatic test and measuring equipment: | | | | | |
| 3345154149 | Combination and/or group test sets..... | 40 | c/ | 1,497,614 | | 1,472,813 |
| | Component part test sets: | | | | | |
| | Semiconductor component test equipment: | | | | | |
| 3345154153 | Memory..... | 10 | | 35,738 | r/ | 32,107 |
| 3345154157 | Microprocessor..... | 13 | b/ | 1,008,021 | b/r/ | 1,335,797 |
| 3345154159 | Other semiconductor component test equipment..... | 21 | c/ | 1,408,195 | a/t/ | 1,377,392 |
| 3345154161 | Loaded circuit board test equipment..... | 12 | | 136,827 | r/ | 288,258 |
| 3345154163 | Other component part test sets and equipment..... | 16 | b/ | 152,560 | | 204,341 |
| 3345154165 | Equipment and subassembly test equipment..... | 9 | b/ | 182,870 | | 212,197 |
| 3345154168 | Standards and calibration equipment..... | 24 | a/ | 161,634 | a/ | 180,775 |
| | Communications test equipment: | | | | | |
| 3345154175 | Network analyzers..... | 11 | b/ | 526,971 | | 546,600 |
| 3345154179 | Fiber optics..... | 4 | a/ | 19,242 | | 64,831 |
| 3345154183 | Microwave..... | 6 | c/ | 46,485 | b/t/ | 60,521 |
| 3345154185 | Other communications test equipment..... | 21 | | 406,536 | | 529,467 |
| 3345154196 | Other test equipment..... | 70 | a/ | 757,074 | | 731,280 |
| 3345154197 | Parts and components for test equipment..... | 37 | | 277,264 | | 217,986 |
| 3345155 | Total other instruments to measure electricity: | 58 | b/ | 426,222 | r/ | 407,499 |
| 3345155114 | Electrical indicating instruments: panel type..... | 15 | | 46,936 | r/ | 51,414 |
| 3345155121 | Electrical indicating instruments: portable..... | 15 | c/ | 126,269 | r/ | 103,513 |
| 3345155124 | Electrical recording instruments..... | 20 | | 99,065 | | 91,419 |
| 3345155127 | Other instruments to measure electricity..... | 10 | | (S) | | (D) |
| 3345155135 | Parts and accessories for indicating and recording instruments..... | 24 | | (S) | | (D) |

Table 2. Value of Shipments of Meters and Test Devices: 2007 and 2006
[Value in thousands of dollars]

| Product code | Product description | No. of cos. | | 2007 | | 2006 |
|--------------|--|-------------|----|-----------|------|-----------|
| 3345194 | Physical properties testing and inspection equipment and kinematic testing and measuring equipment..... | 134 | a/ | 2,062,482 | a/ | 1,906,876 |
| | Physical properties testing equipment, including hardness, tensile, stress, strain, abrasion, strength, torsion, wear, and similar testing equipment, including components and sold separately: | | | | | |
| 3345194101 | For testing of metals..... | 23 | | 561,501 | | 523,370 |
| 3345194104 | Other, including parts..... | 49 | a/ | 151,026 | a/ | 498,967 |
| | Physical properties inspection equipment, including flaw detection, thickness measuring, and similar detection equipment: | | | | | |
| 3345194107 | For testing of metals..... | 17 | c/ | 216,886 | b/r/ | 233,442 |
| 3345194109 | Measuring and checking flow of fluids..... | 17 | | 133,624 | r/ | 72,907 |
| 3345194112 | Other, including parts..... | 44 | | 382,978 | | 351,773 |
| 3345194116 | Kinematic testing and measuring equipment, including parts (including vibration, acceleration, and other motion testing equipment)..... | 28 | a/ | 252,467 | | 226,417 |
| 3345195 | Nuclear radiation detection and monitoring instruments..... | 31 | a/ | 696,093 | | 635,219 |
| 3345195105 | Nuclear monitoring instruments, (include environment, personal dosimetry, and medical monitors)..... | 11 | | 252,760 | | 185,439 |
| 3345195125 | Nuclear instrument modules, n.e.c. | 10 | a/ | 63,889 | a/r/ | 54,409 |
| 3345195126 | Radiation detecting elements, nuclear power supplies, and measuring and control devices that use beta, gamma, or neutron gauge technology..... | 21 | a/ | 157,670 | | 168,385 |
| 3345195127 | Other nuclear radiation detection and monitoring instruments..... | 18 | b/ | 179,482 | a/r/ | 186,842 |
| 3345195129 | Parts and components for nuclear radiation and detection and monitoring instruments..... | 12 | b/ | 42,292 | b/ | 40,504 |
| 3345197 | Commercial, geophysical, meteorological, and general-purpose instruments..... | 95 | | 2,274,314 | a/ | 1,863,978 |
| 3345197119 | Thermometers (all kinds)..... | 34 | b/ | 278,918 | a/ | 181,381 |
| 3345197124 | Meteorological electronics equipment and instruments..... | 32 | b/ | 474,703 | | 433,990 |
| 3345197127 | Seismic instruments..... | 9 | b/ | 667,755 | b/ | 460,845 |
| 3345197135 | All other instruments not listed above, including compasses, altimeters, humidity indicating and recording instruments, environmental gas detectors, air sampling instruments, dynamometers, etc. | 79 | | 852,938 | | 787,762 |

D Withheld to avoid disclosing data for individual companies. n.e.c. Not specified by kind. r/Revised by 5 percent or more from previously published data.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item has been estimated. b/26 to 50 percent of this item has been estimated. c/Over 50 percent of this item has been estimated.

Table 3. Shipments, Exports and Imports of Meters and Test Devices: 2007
[Value in thousands of dollars]

| Product code | Product description | Manufacturers' shipments (value f.o.b. plant) | Exports of domestic merchandise (value at port) 1/ | Imports for consumption 2/ (value) 3/ |
|--|--|---|---|---|
| 3345141108 | Gas meters, consumption registering (except parts)..... | 283,397 | 48,622 | 17,274 |
| 3345141116 | Liquid meters (except parts)..... | 1,119,133 | 75,445 | 12,730 |
| 3345141119 | Parts, components, and accessories for gas and liquid meters, sold separately..... | 446,478 | 105,251 | 240,560 |
| 3345143104, 108 | Counting devices, n.e.c., including taxi meters, parking meters and parts..... | 508,816 | 117,111 | 286,249 |
| 3345151 | Electricity meters..... | 876,294 | 166,155 | 157,262 |
| 3345154102 | Voltage, current, and resistance measuring equipment equipment..... | 336,613 | 128,842 | 356,744 |
| 3345154111 | Multimeters..... | 103,997 | 78,703 | 99,582 |
| 3345154136 | Signal generating equipment..... | 168,030 | 155,178 | 64,924 |
| 3345154126, 141 149, 153, 157 159, 161, 163 165, 168, 175 179, 183, 185 196 | Test equipment for testing multimeters, electrical, radio and communication circuits, and motors, n.e.c. | 7,675,263 | 3,105,029 | 1,078,784 |
| 3345194 | Physical properties testing and inspection equipment and kinematic testing and measuring equipment..... | 2,062,482 | 411,110 | 150,196 |
| 3345195 | Nuclear radiation detection and monitoring instruments and equipment..... | 696,093 | 434,638 | 176,340 |
| 3345197119 | Thermometers..... | 278,918 | 132,203 | 263,600 |
| 3345197127 | Seismic instruments..... | 667,755 | 13,867 | 26,424 |

n.e.c. Not elsewhere classified.

1/Source: Census Bureau report, EM 545, U.S. Exports.

2/Source: Census Bureau report, IM 145, U.S. Imports for Consumption.

3/Value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

| Product code | Product description | Export code 1/ | Import code 2/ |
|--|---|----------------|----------------|
| 3345141108 | Gas meters, consumption registering (except parts)..... | 9028.10.0000 | 9028.10.0000 |
| 3345141116 | Liquid meters (except parts)..... | 9028.20.0000 | 9028.20.0000 |
| 334514119 | Parts, components, and accessories for gas and liquid meters, sold separately..... | 9028.90.0080 | 9028.90.0080 |
| 3345143104, 108 | Counting devices, n.e.c., including taxi meters, parking meters and parts..... | 9106.20.0000 | 9106.20.0000 |
| | | 9029.10.0000 | 9029.10.4000 |
| | | 9029.90.0000 | 9029.10.8000 |
| | | | 9029.90.2000 |
| | | | 9029.90.8080 |
| 3345151 | Electricity meters..... | 9028.30.0000 | 9028.30.0000 |
| 3345154102 | Voltage, current, and resistance measuring equipment (except multimeters)..... | 9030.39.0040 | 9030.39.0040 |
| 3345154111 | Multimeters..... | 9030.31.0000 | 9030.31.0000 |
| | | 9030.32.0000 | 9030.32.0000 |
| 3345154136 | Signal generating equipment..... | 8543.20.0000 | 8543.20.0000 |
| 3345154126, 141, 149,153, 157, 159, 161, 163, 165, 168, 175, 179, 183, 185, 196 | Test equipment for testing multimeters, electrical, radio and communication circuits, and motors, n.e.c. | 9029.20.6000 | 9029.20.6000 |
| | | 9030.82.0000 | 9030.82.0000 |
| | | 9030.90.8010 | 9030.90.2500 |
| | | 9030.90.8020 | 9030.90.4500 |
| | | 9030.90.8030 | 9030.90.6400 |
| | | 9030.90.8040 | 9030.90.6800 |
| | | 9030.90.8050 | 9030.90.8400 |
| | | 9030.90.8060 | 9030.90.8811 |
| | | | 9030.90.8821 |
| | | | 9030.90.8831 |
| | | | 9030.90.8840 |
| | | | 9030.90.8856 |
| 3345194 | Physical properties testing and inspection equipment and kinematic testing and measuring equipment..... | | 9030.90.8861 |
| | | | 9031.80.8060 |
| | | 9024.10.0000 | 9024.10.0000 |
| | | 9024.80.0000 | 9024.80.0000 |
| | | 9024.90.0000 | 9024.90.0040 |
| | | | 9024.90.0080 |
| 3345195 | Nuclear radiation detection and monitoring instruments and equipment..... | 9030.10.0000 | 9030.10.0000 |
| | | 9030.90.4000 | |
| 3345197119 | Thermometers..... | 9025.11.2000 | 9025.11.4000 |
| | | 9025.11.4000 | 9025.19.8080 |
| | | 9025.19.8040 | |
| 3345197127 | Seismic instruments..... | 9015.80.6000 | 9015.80.6000 |

n.e.c. Not elsewhere classified.

1/Source: 2007 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2007).

HISTORICAL NOTE

The Census Bureau has collected data on selected instruments and related products since 1961 on survey MA334B.

Beginning in 2005, a portion of data for MA334B, Selected Instruments and Related Products, will be published under the new survey MA334D, Defense, Navigational and Aerospace Electronics. Additional data for MA334B can be found on surveys MA334A, Analytical and Biomedical Instruments, MA334C, Control Instruments, and MA334T, Meters and Test Devices.

Historical Current Industrial Reports data may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.